

DC



PCT

## RAW SEQUENCE LISTING

DATE: 08/24/2004

PATENT APPLICATION: US/10/019,151B

TIME: 12:32:24

Input Set : A:\KATO Sequence Listing.txt

Output Set: N:\CRF4\08242004\J019151B.raw

3 <110> APPLICANT: KATO, Seishi  
 4 KIMURA, Tomoko  
 6 <120> TITLE OF INVENTION: Human proteins having hydrophobic domains and DNAs encoding  
 these proteins  
 8 <130> FILE REFERENCE: 2003-0984/WMC/01791  
 10 <140> CURRENT APPLICATION NUMBER: 10/019,151B  
 C--> 11 <141> CURRENT FILING DATE: 2001-12-21  
 W--> 11 <151> PRIOR FILING DATE: 2002-08-20  
 13 <150> PRIOR APPLICATION NUMBER: PCT/JP00/03944  
 14 <151> PRIOR FILING DATE: 2000-06-16  
 16 <150> PRIOR APPLICATION NUMBER: JP 11-178065  
 17 <151> PRIOR FILING DATE: 1999-06-24  
 19 <160> NUMBER OF SEQ ID NOS: 24  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 238  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Homo sapiens  
 26 <400> SEQUENCE: 1  
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 28 1 5 10 15  
 30 Leu Ser Glu Ile Asn Ile Ala Pro Arg Ile Leu Thr Asn Phe Thr Gly  
 31 20 25 30  
 33 Val Met Pro Pro Gln Phe Lys Lys Asp Leu Asp Ser Tyr Leu Lys Thr  
 34 35 40 45  
 36 Arg Ser Pro Val Thr Phe Leu Ser Asp Leu Arg Ser Asn Leu Gln Val  
 37 50 55 60  
 39 Ser Asn Glu Pro Gly Asn Arg Tyr Asn Leu Gln Leu Ile Asn Ala Leu  
 40 65 70 75 80  
 42 Val Leu Tyr Val Gly Thr Gln Ala Ile Ala His Ile His Asn Lys Gly  
 43 85 90 95  
 45 Ser Thr Pro Ser Met Ser Thr Ile Thr His Ser Ala His Met Asp Ile  
 46 100 105 110  
 48 Phe Gln Asn Leu Ala Val Asp Leu Asp Thr Glu Gly Arg Tyr Leu Phe  
 49 115 120 125  
 51 Leu Asn Ala Ile Ala Asn Gln Leu Arg Tyr Pro Asn Ser His Thr His  
 52 130 135 140  
 54 Tyr Phe Ser Cys Thr Met Leu Tyr Leu Phe Ala Glu Ala Asn Thr Glu  
 55 145 150 155 160  
 57 Ala Ile Gln Glu Gln Ile Thr Arg Val Leu Leu Glu Arg Leu Ile Val  
 58 165 170 175  
 60 Asn Arg Pro His Pro Trp Gly Leu Leu Ile Thr Phe Ile Glu Leu Ile  
 61 180 185 190  
 63 Lys Asn Pro Ala Phe Lys Phe Trp Asn His Glu Phe Val His Cys Ala  
 64 195 200 205

ENTERED

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66 Pro Glu Ile Glu Lys Leu Phe Gln Ser Val Ala Gln Cys Cys Met Gly  
 67 210 215 220  
 69 Gln Lys Gln Ala Gln Gln Val Met Glu Gly Thr Gly Ala Ser  
 70 225 230 235  
 73 <210> SEQ ID NO: 2  
 74 <211> LENGTH: 339  
 75 <212> TYPE: PRT  
 76 <213> ORGANISM: Homo sapiens  
 78 <400> SEQUENCE: 2  
 79 Met Ala Ala Ala Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu  
 80 1 5 10 15  
 82 Gly Leu His Leu Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn  
 83 20 25 30  
 85 Asp Pro Asp Arg Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His  
 86 35 40 45  
 88 Tyr Asp Arg Tyr Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu  
 89 50 55 60  
 91 Lys Cys Val Gly Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val  
 92 65 70 75 80  
 94 Ile Gln Cys Gln Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu  
 95 85 90 95  
 97 Cys Lys Thr Asp Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val  
 98 100 105 110  
 100 Ser Cys Glu Gly Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly  
 101 115 120 125  
 103 Ser Cys Gly Leu Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln  
 104 130 135 140  
 106 Lys Leu Lys Glu Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp  
 107 145 150 155 160  
 109 Tyr Tyr Tyr Lys Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu  
 110 165 170 175  
 112 Ile Thr Ile Val Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu  
 113 180 185 190  
 115 Phe Leu Ser Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro  
 116 195 200 205  
 118 Pro Phe Ser His Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro  
 119 210 215 220  
 121 Pro Pro Gly Phe Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His  
 122 225 230 235 240  
 124 Gly Ala Thr Ser Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr  
 125 245 250 255  
 127 Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile  
 128 260 265 270  
 130 Leu Gly Tyr Leu Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp  
 131 275 280 285  
 133 Ser Trp Tyr Tyr Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn  
 134 290 295 300  
 136 Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys  
 137 305 310 315 320

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139 Ser Asn Ser Asp Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly Thr  
 140 325 330 335  
 142 Arg Arg Arg  
 145 <210> SEQ ID NO: 3  
 146 <211> LENGTH: 326  
 147 <212> TYPE: PRT  
 148 <213> ORGANISM: Homo sapiens  
 150 <400> SEQUENCE: 3  
 151 Met Ala Lys Met Glu Leu Ser Lys Ala Phe Ser Gly Gln Arg Thr Leu  
 152 1 5 10 15  
 154 Leu Ser Ala Ile Leu Ser Met Leu Ser Leu Ser Phe Ser Thr Thr Ser  
 155 20 25 30  
 157 Leu Leu Ser Asn Tyr Trp Phe Val Gly Thr Gln Lys Val Pro Lys Pro  
 158 35 40 45  
 160 Leu Cys Glu Lys Gly Leu Ala Ala Lys Cys Phe Asp Met Pro Val Ser  
 161 50 55 60  
 163 Leu Asp Gly Asp Thr Asn Thr Ser Thr Gln Glu Val Val Gln Tyr Asn  
 164 65 70 75 80  
 166 Trp Glu Thr Gly Asp Asp Arg Phe Ser Phe Arg Ser Phe Arg Ser Gly  
 167 85 90 95  
 169 Met Trp Leu Ser Cys Glu Glu Thr Val Glu Glu Pro Gly Glu Arg Cys  
 170 100 105 110  
 172 Arg Ser Phe Ile Glu Leu Thr Pro Pro Ala Lys Arg Glu Ile Leu Trp  
 173 115 120 125  
 175 Leu Ser Leu Gly Thr Gln Ile Thr Tyr Ile Gly Leu Gln Phe Ile Ser  
 176 130 135 140  
 178 Phe Leu Leu Leu Leu Thr Asp Leu Leu Leu Thr Gly Asn Pro Ala Cys  
 179 145 150 155 160  
 181 Gly Leu Lys Leu Ser Ala Phe Ala Ala Val Ser Ser Val Leu Ser Gly  
 182 165 170 175  
 184 Leu Leu Gly Met Val Ala His Met Met Tyr Ser Gln Val Phe Gln Ala  
 185 180 185 190  
 187 Thr Val Asn Leu Gly Pro Glu Asp Trp Arg Pro His Val Trp Asn Tyr  
 188 195 200 205  
 190 Gly Trp Ala Phe Tyr Met Ala Trp Leu Ser Phe Thr Cys Cys Met Ala  
 191 210 215 220  
 193 Ser Ala Val Thr Phe Asn Thr Tyr Thr Arg Met Val Leu Glu Phe  
 194 225 230 235 240  
 196 Lys Cys Lys His Ser Lys Ser Phe Lys Glu Asn Pro Asn Cys Leu Pro  
 197 245 250 255  
 199 His His His Gln Cys Phe Pro Arg Arg Leu Ser Ser Ala Ala Pro Thr  
 200 260 265 270  
 202 Val Gly Pro Leu Thr Ser Tyr His Gln Tyr His Asn Gln Pro Ile His  
 203 275 280 285  
 205 Ser Val Ser Glu Gly Val Asp Phe Tyr Ser Glu Leu Arg Asn Lys Gly  
 206 290 295 300  
 208 Phe Gln Arg Gly Ala Ser Gln Glu Leu Lys Glu Ala Val Arg Ser Ser  
 209 305 310 315 320  
 211 Val Glu Glu Gln Cys

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212 325  
 214 <210> SEQ ID NO: 4  
 215 <211> LENGTH: 324  
 216 <212> TYPE: PRT  
 217 <213> ORGANISM: Homo sapiens  
 219 <400> SEQUENCE: 4  
 220 Met Ala Ala Ala Ala Pro Gly Asn Gly Arg Ala Ser Ala Pro Arg Leu  
 221 1 5 10 15  
 223 Leu Leu Leu Phe Leu Val Pro Leu Leu Trp Ala Pro Ala Ala Val Arg  
 224 20 25 30  
 226 Ala Gly Pro Asp Glu Asp Leu Ser His Arg Asn Lys Glu Pro Pro Ala  
 227 35 40 45  
 229 Pro Ala Gln Gln Leu Gln Pro Gln Pro Val Ala Val Gln Gly Pro Glu  
 230 50 55 60  
 232 Pro Ala Arg Val Glu Lys Ile Phe Thr Pro Ala Ala Pro Val His Thr  
 233 65 70 75 80  
 235 Asn Lys Glu Asp Pro Ala Thr Gln Thr Asn Leu Gly Phe Ile His Ala  
 236 85 90 95  
 238 Phe Val Ala Ala Ile Ser Val Ile Ile Val Ser Glu Leu Gly Asp Lys  
 239 100 105 110  
 241 Thr Phe Phe Ile Ala Ala Ile Met Ala Met Arg Tyr Asn Arg Leu Thr  
 242 115 120 125  
 244 Val Leu Ala Gly Ala Met Leu Ala Leu Gly Leu Met Thr Cys Leu Ser  
 245 130 135 140  
 247 Val Leu Phe Gly Tyr Ala Thr Thr Val Ile Pro Arg Val Tyr Thr Tyr  
 248 145 150 155 160  
 250 Tyr Val Ser Thr Val Leu Phe Ala Ile Phe Gly Ile Arg Met Leu Arg  
 251 165 170 175  
 253 Glu Gly Leu Lys Met Ser Pro Asp Glu Gly Gln Glu Glu Leu Glu Glu  
 254 180 185 190  
 256 Val Gln Ala Glu Leu Lys Lys Lys Asp Glu Glu Phe Gln Arg Thr Lys  
 257 195 200 205  
 259 Leu Leu Asn Gly Pro Gly Asp Val Glu Thr Gly Thr Ser Ile Thr Val  
 260 210 215 220  
 262 Pro Gln Lys Lys Trp Leu His Phe Ile Ser Pro Ile Phe Val Gln Ala  
 263 225 230 235 240  
 265 Leu Thr Leu Thr Phe Leu Ala Glu Trp Gly Asp Arg Ser Gln Leu Thr  
 266 245 250 255  
 268 Thr Ile Val Leu Ala Ala Arg Glu Asp Pro Tyr Gly Val Ala Val Gly  
 269 260 265 270  
 271 Gly Thr Val Gly His Cys Leu Cys Thr Gly Leu Ala Val Ile Gly Gly  
 272 275 280 285  
 274 Arg Met Ile Ala Gln Lys Ile Ser Val Arg Thr Val Thr Ile Ile Gly  
 275 290 295 300  
 277 Gly Ile Val Phe Leu Ala Phe Ala Phe Ser Ala Leu Phe Ile Ser Pro  
 278 305 310 315 320  
 281 Asp Ser Gly Phe  
 284 <210> SEQ ID NO: 5  
 285 <211> LENGTH: 153